Fig. 1

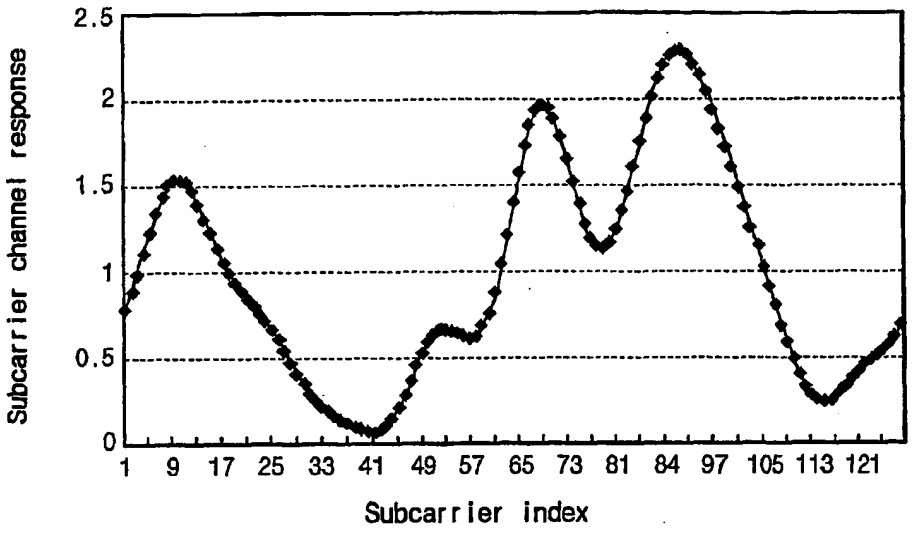
Subcarrier channel response
2.5
2
1.5
1
0.5
0
1 9 17 25 33 41 49 57 65 73 81 84 97 105 113 121
Subcarrier index

Fig. 2

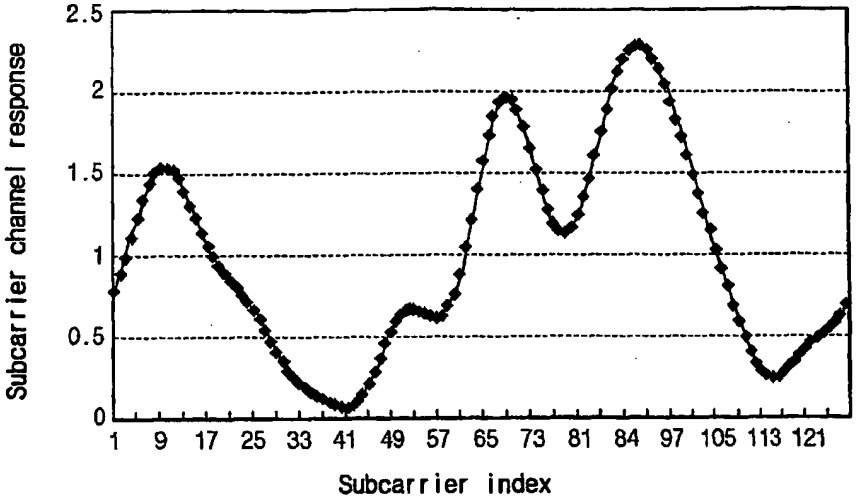
Subcarrier channel response
2.5
2
1.5
1
0.5
0
1 9 17 25 33 41 49 57 65 73 81 84 97 105 113 121
Subcarrier index

Fig. 3

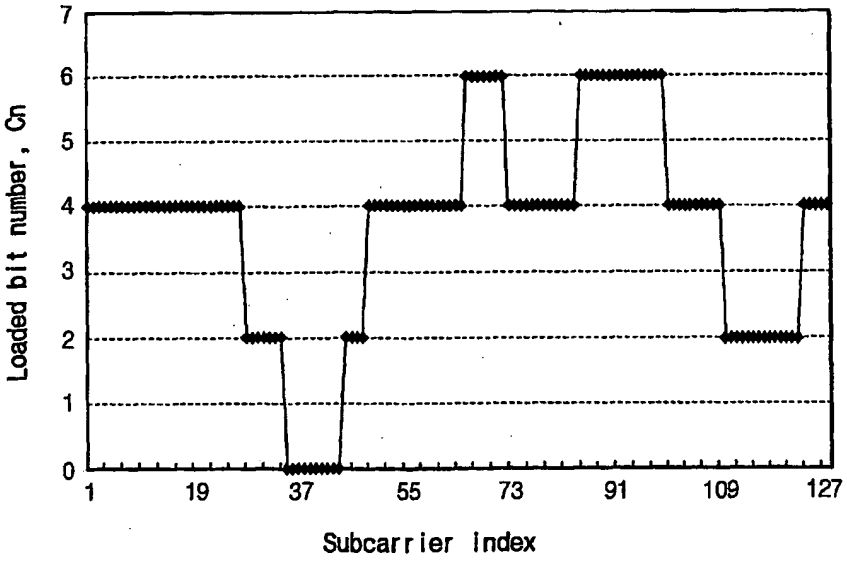
Loaded bit number, Cn
7
6
5
4
3
2
1
0
1 19 37 55 73 91 109 127
Subcarrier Index

Fig. 4

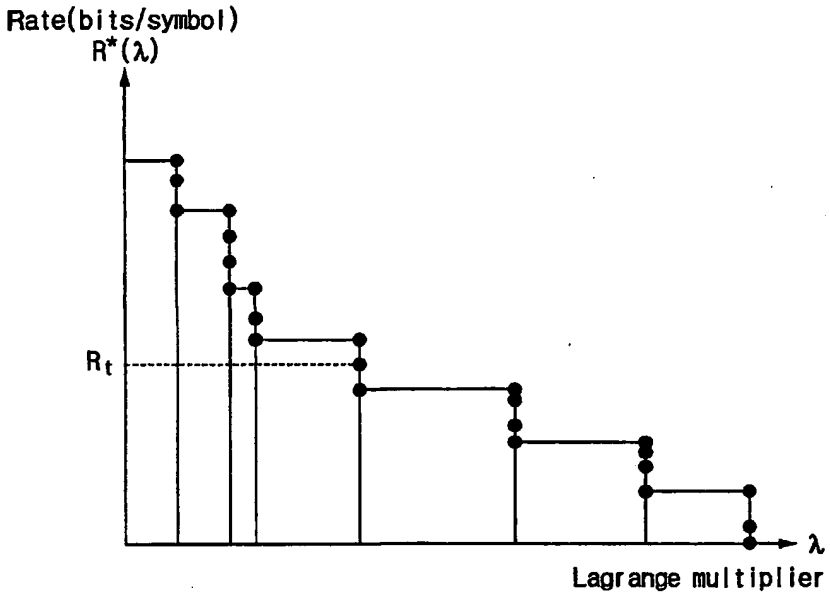
Rate(bits/symbol)
R*(λ)
Rt
λ
Lagrange multiplier

Fig. 5

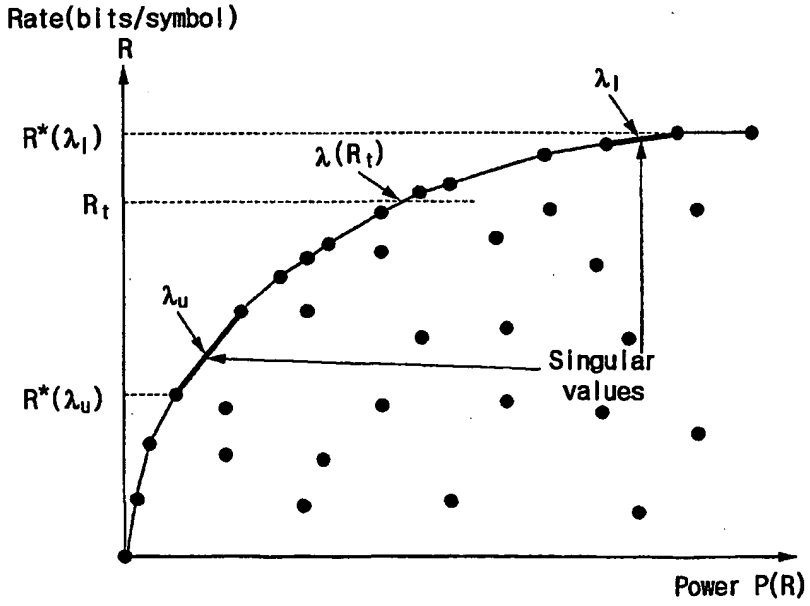
Rate(bits/symbol)
R
λl
R*(λl)
λ(Rt)
Rt
λu
Singular values
R*(λu)
Power P(R)

Fig. 6

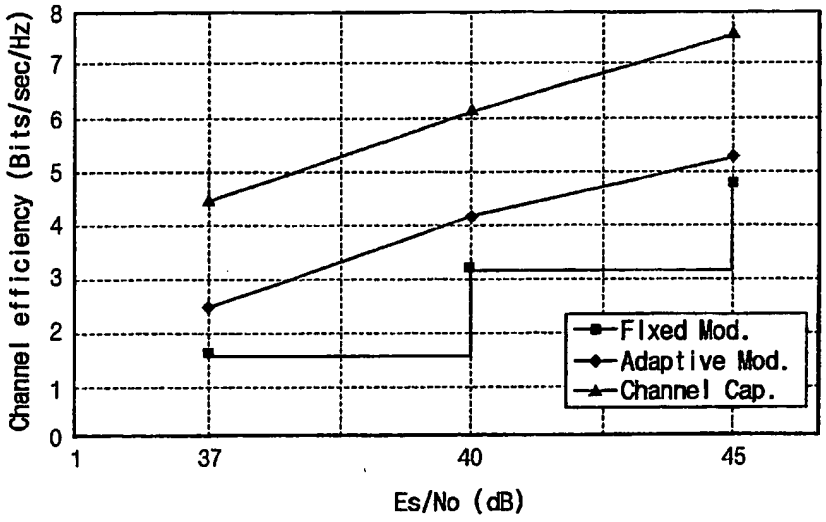

Fig. 7

Average repeat number	Greedy algorithm	Shoham algorithm	Krongold algorithm	Present invention
E_s/N_o = 34dB	176.7	59.0	8.18	4.4
E_s/N_o = 40dB	300.0	100.2	32.1	10.1
E_s/N_o = 45dB	381.0	127.0	32.8	10.0